

GUARDIAN

CALL SIGN : PCSY
YEAR BUILT : 2013
CLASSIFICATION : Lloyds Register, Emergen-
cy Towing Vessel, FiFi 1,
AHTS, Oil Recovery Vessel
Class 1, LMC UMS
FLAG : Dutch
HOMEPORT : Den Helder-Netherlands
IMO : 9637363



DIMENSIONS

L.O.A. : 65.72 m
L.B.P.P. : 60.50 m
Breath : 15.50 m
Gross tonnage : 2637 tons
Net tonnage : 820 tons

PERFORMANCE

Max. bollard pull : 149 tons

PROPULSION

Main engines : MAK 8M32C, 2x 4000kW at 600rpm
Propellers : BCP Dia 3400 mm
Variable pitch in fixed nozzles /
feathering type
Tunnel thruster : 2 Tunnel bow thruster, 2x 600 kW,
1 Tunnel stern thruster, 1x 600 kW
Steering gear : 2 pcs Hydroster Ship Machinery,
Works Ltd.

FIFI SYSTEMS

System 1 : 2 pcs fire-fighting centrifugal pumps
FFS SNT250/550
Capacity : 2x 1742 m³/h
Head : 11.8 mlc 1800 rpm / 790 Kw
System 2 : 2 single/dual flow monitors FFS
1200/300LB
Control : Joystick controlled from bridge
Capacity : 1200 m³/h - 10.0 bar
Throw length -
capacity full : 120 m
Throw length -
capacity reduced : 75 m

System 3 : 1 foam pump DPVSF 18-100
Capacity : 18 m³/h - 18.5 Kw
Head : 185 mlc 3420 rpm

System 4 : 2 fog monitors for own
protection type ABS

System 5 : Water spray system with
standard tug nozzles
Capacity : 900 m³/h at 7.6 bar

LAY-OUT

Lenght : 28 m
Breath : 12 m
Total : 340 m²
Max. deck load : 750 tons
Deck strength m² : 7.5 t/m²

DECK LAY-OUT

Towing/anchor
handling winch : - 1 towing drum
Wire 1500 m / 70 mm
Line pull 150T - 15 m/min (1st speed)
Brake holding 300 tons, 1st layer
- 1 Anchor handling drum
Wire 1000 m / 86 mm
line/9 layers. pull 200 tons,
12 m/min (1st speed)
Line pull 200 tons
Brake holding 400 tons, anchor drum
- All drums are declutchable
- Automatic tension compensator
- 2 gypsies for 76 & 90mm rig chain
Spooling device : 20 tons spooling device for towing drum
Capstan : 2x 10 tons

Crane	: 6 ton/15 m, knuckle type
Tugger winch	: 2x 12 tons 15 m/min Brake capacity 15 tons
Windlass	: 83,8 KN 10 m/min Brake capacity 633 KN Chain diameter 42 mm
Shark jaw	: SWL 400 tons Operated from bridge and locally
Towing pins	: Angular Type - SWL 300 tons Operated from bridge and locally
Stern roller	: Diameter 2500 x 5700 mm SWL 320 tons
Spare wire reel	: 1500 mtr, 70mm wire, hydraulically controlled

AUXILIARY EQUIPMENT

Shaftgenerator sets	: 2x AVK 1250 KVA
Aux generators	: Volvo Penta D16-MG, 2x 410 kW
Emergency genset	: Volvo Penta D7A-AT, 1x 100 kW
Voltage, frequency	: 3x 400V, 50 Hz

TANK CAPACITY

M.F.O.	: 634 m³
M.G.O.	: 361 m³
Fresh water	: 291 m³

ACCOMMODATION

1-man cabin	: 17 (seventeen)
2-men cabin	: 6 (six)
Survival	: 4 (four)
Hospital	: 1-2 persons (one-two)
Dispensary	: 1 (one)
Meeting room	: 1-10 persons (one-ten)
Mess rooms	: 2-30 persons (two-thirty)
Daily rooms	: 2 (two)

NAVIGATION EQUIPMENT

Radar,JRC Marine ARPA X-band	: 1
High resolution color display, radar plotter 21"	: 2
Radar, JRC Marine ARPA S-band	: 1
Radar repeater (slave radar) at aft wheelhouse console	: 1
GPS JRC	: 1
DGPS JRC	: 1
Navtex JRC	: 1
Echo sounder JRC ESOND	: 1
Speed log JRC	: 1
AIS JRC	: 1
Gyro compasses YOKOGAWA	: 2
Magnetic compass C-PLATH	: 1
Autopilot navitron	: 1
Wind speed/direction SENSORS	: 2
Weather fax JRC	: 1
Ecdis dual alphachart	: 1

COMMUNICATION EQUIPMENT

GMDSS station area A1+A2+A3	
- HF/MF DSC sailor	: 1
- Emerg portable VHF GMDSS JOTRON	: 3
- VHF DSC JRC	: 2

- Portable UHF Alphanatron	: 3
- Inmarsat C JRC (SSAS & LRIT)	: 2
- Radio telex Felcom 15	: 1
- EPIRB JOTRON	: 1
- SART JOTRON	: 2
- BNWAS NAVITRON	: 1
- Public Address System	: 1
- V-SAT Intellian V-60 Ku-band	: 1
- SEATEL TV system TV80	: 1

Dynamic Positioning System (DP-2)

Maker	: KONGSBERG
Type	: K-Pos DP-21 Dual redundant positioning system

Equipped with Trunk & valve for easy future installation of High Precision Acoustic Positioning system (HiPAP, Kongsberg 501).

RESCUE AND LIFESAVING EQUIPMENT

Rescue Boats	: 1 NORSAFE Matrix
Dimensions	: 4,50 x 1.96 x 1.75m
Capacity	: 6 persons
Engine	: Outboard engine (20Hp)

Lifecrafts	: 4 Vikings
Capacity	: 20 persons/each

Search lights	: 2 Seematz
Control	: Remotely from bridge

Lifebuys	: 6 provided with strobe lights and lifelines
Hospital	: 2 treatment bench, racks for stretchers, desk, medicine, poison locker
Dispensary	: 1 including medical equipments / medicine in accordance with Flag's State and International requirements

